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determines whether or not to change serving cell for cell reselection based on the monitoring of the channels on the neighbor list and the serving base station (block 126). If cell reselection occurs, the mobile station 16 may be required to register with the cellular system in order to identify its presence in the new paging area if necessary. The process will repeat until a new call is arranged or the phone is completely powered down.

In the claims:

Please cancel claims 1, 6-7, 31, and 44 without prejudice.

Please amend claims 2, 3, 8-13, 32-37, 45-47, and 49 as follows:

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2. (Amended) The channel selection method of claim 8 wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

3. (Amended) A method of channel selection for a mobile station comprising:
determining a position of said mobile station;
periodically performing channel quality measurements of signals transmitted from one or more base stations, wherein the frequency of performing said channel quality measurements is a function of said position of said mobile station;
and
wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

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8. (Amended) A method of channel selection for a mobile station comprising:
determining a position of said mobile station;
periodically performing channel quality measurements of signals transmitted from
one or more base stations, wherein the frequency of performing said channel
quality measurements is a function of said position of said mobile station;
and
wherein said frequency of performing said channel quality measurements is a
function of the length of time said mobile station remains in said position.

9. (Amended) The channel selection method of claim 8 wherein said channel quality
measurements are performed by said mobile station while said mobile station is in an
idle mode.

10. (Amended) The channel selection method of claim 3 wherein said channel quality
measurements are performed by said mobile station while said mobile station is
engaged in a packet switched call.

11. (Amended) The channel selection method of claim 3 wherein said channel quality
measurements are performed by said mobile station while said mobile station is
engaged in a circuit switched call.

12. (Amended) The channel selection method of claim 3 wherein said mobile station
uses said channel quality measurement for cell reselection.

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13. (Amended) The channel selection method of claim 3 further including transmitting said channel quality measurements from said mobile station to a first base station serving said mobile station.

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32. (Amended) The mobile station of claim 36 wherein said control logic varies the frequency of performing said channel quality measurements based on the relative position of said mobile station with respect to a first base station serving said mobile station.

33. (Amended) A mobile station comprising:

a transceiver for transmitting and receiving radio frequency signals;

a signal processor operatively connected to said transceiver for periodically performing channel quality measurements on selected signals received by said transceiver;

control logic for controlling said signal processor and said transceiver to vary the frequency of performing said channel quality measurements as a function of the position of said mobile station; and

wherein said control logic varies the frequency of performing said channel quality measurements based on the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

34. (Amended) The mobile station of claim 33 wherein said control logic varies the frequency of performing said channel quality measurements based on the mobility of said mobile station.

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35. (Amended) The mobile station of claim 33 wherein said control logic varies the frequency of performing said channel quality measurements based on the rate of change of said position of said mobile station.

36. (Amended) A mobile station comprising:

a transceiver for transmitting and receiving radio frequency signals;

a signal processor operatively connected to said transceiver for periodically performing channel quality measurements on selected signals received by said transceiver;

control logic for controlling said signal processor and said transceiver to vary the frequency of performing said channel quality measurements as a function of the position of said mobile station; and

wherein said control logic varies the frequency of performing said channel quality measurements based on the length of time said mobile station remains in said position.

37. (Amended) The mobile station of claim 33 further including a positioning receiver for determining the position of said mobile station.

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45. (Amended) The control method of claim 49 wherein said frequency of performing said periodic task is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.